


THE ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES

CONTENTS OF VOLUME 151

2004 MARCH NUMBER 1

	Page
ESTIMATING <i>N</i> -POINT CORRELATION FUNCTIONS FROM PIXELIZED SKY MAPS <i>H. K. Eriksen, P. B. Lilje, A. J. Banday, &amp; K. M. Górski</i>	1
PERFORMANCE ANALYSIS OF HIGH-ACCURACY TREE CODE BASED ON THE PSEUDOPARTICLE MULTIPOLE METHOD <i>Atsushi Kawai, Junichiro Makino, &amp; Toshiyazu Ebisuzaki</i>	13
INTERSTELLAR ICE: THE INFRARED SPACE OBSERVATORY LEGACY <i>E. L. Gibb, D. C. B. Whittet, A. C. A. Boogert, &amp; A. G. G. M. Tielens</i>	35
MODELS FOR TYPE I X-RAY BURSTS WITH IMPROVED NUCLEAR PHYSICS <i>S. E. Woosley, A. Heger, A. Cumming, R. D. Hoffman, J. Pruet, T. Rauscher, J. L. Fisker, H. Schatz, B. A. Brown, &amp; M. Wiescher</i>	75
A GALACTIC O STAR CATALOG  <i>Jesús Maíz-Apellániz, Nolan R. Walborn, Héctor Á. Galué, &amp; Lisa H. Wei</i>	103
SECOND-ORDER-ACCURATE SCHEMES FOR MAGNETOHYDRODYNAMICS WITH DIVERGENCE-FREE RECONSTRUCTION <i>Dinshaw S. Balsara</i>	149
INSTRUCTIONS TO AUTHORS	i

2004 APRIL NUMBER 2

UNIVERSALITY IN THE DISTRIBUTION OF CAUSTICS IN THE EXPANDING UNIVERSE <i>Taihei Yano, Hiroko Koyama, Thomas Buchert, &amp; Naoteru Gouda</i>	185
A HIGH SPATIAL RESOLUTION X-RAY AND H $\alpha$ STUDY OF HOT GAS IN THE HALOS OF STAR-FORMING DISK GALAXIES. I. SPATIAL AND SPECTRAL PROPERTIES OF THE DIFFUSE X-RAY EMISSION <i>David K. Strickland, Timothy M. Heckman, Edward J. M. Colbert, Charles G. Hoopes, &amp; Kimberly A. Weaver</i>	193
COLD DUST IN EARLY-TYPE GALAXIES. I. OBSERVATIONS <i>Pasquale Temi, Fabrizio Brighenti, William G. Mathews, &amp; Jesse D. Bregman</i>	237
THE MILLENNIUM ARECIBO 21 CENTIMETER ABSORPTION-LINE SURVEY. III. TECHNIQUES FOR SPECTRAL POLARIZATION AND RESULTS FOR STOKES <i>V</i>  <i>Carl Heiles &amp; T. H. Troland</i>	271
CLASSIFICATION OF SPECTRA FROM THE INFRARED SPACE OBSERVATORY PHT-S DATABASE  <i>Tracy M. Hodge, Kathleen E. Kraemer, Stephan D. Price, &amp; Helen J. Walker</i>	299
CLOUD STRUCTURE AND PHYSICAL CONDITIONS IN STAR-FORMING REGIONS FROM OPTICAL OBSERVATIONS. I. DATA AND COMPONENT STRUCTURE  <i>K. Pan, S. R. Federman, K. Cunha, V. V. Smith, &amp; D. E. Welty</i>	313
HIGH-TEMPERATURE COMBUSTION: APPROACHING EQUILIBRIUM USING NUCLEAR NETWORKS <i>R. M. Cabezon, D. Garcia-Senz, &amp; E. Bravo</i>	345
DYNAMICAL MASS CONSTRAINTS ON LOW-MASS PRE-MAIN-SEQUENCE STELLAR EVOLUTIONARY TRACKS: AN ECLIPSING BINARY IN ORION WITH A 1.0 $M_{\odot}$ PRIMARY AND A 0.7 $M_{\odot}$ SECONDARY  <i>Keivan G. Stassun, Robert D. Mathieu, Luiz Paulo R. Vaz, Nicholas Stroud, &amp; Frederick J. Vrba</i>	357
A MEDIUM-RESOLUTION NEAR-INFRARED SPECTRAL LIBRARY OF LATE-TYPE STARS. I.  <i>Valentin D. Ivanov, Marcia J. Rieke, Charles W. Engelbracht, Almudena Alonso-Herrero, George H. Rieke, &amp; Kevin L. Luhman</i>	387
BOWEN FLUORESCENCE, STARK BROADENING, AND TRANSITION PROBABILITIES IN THE O III SPECTRUM <i>S. Djeniže, S. Bukvić, &amp; A. Srećković</i>	399
ERRATUM: "ATOMIC DATA FOR RESONANCE ABSORPTION LINES. III. WAVELENGTHS LONGWARD OF THE LYMAN LIMIT FOR THE ELEMENTS HYDROGEN TO GALLIUM" (ApJS, 149, 205 [2003])  <i>Donald C. Morton</i>	403
INDEX	i



